Connected Industries

Achievements, Challenges and Next Steps in Japan's smart Manufacturing

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Ministry of Economy, Trade and Industry (METI)

JAPAN

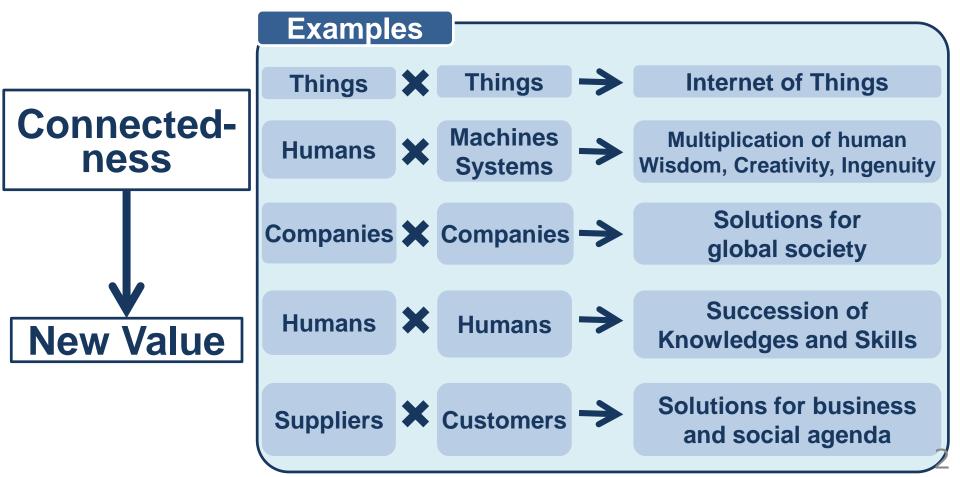
Connected Industries

- New vision for the future of Japanese industries -



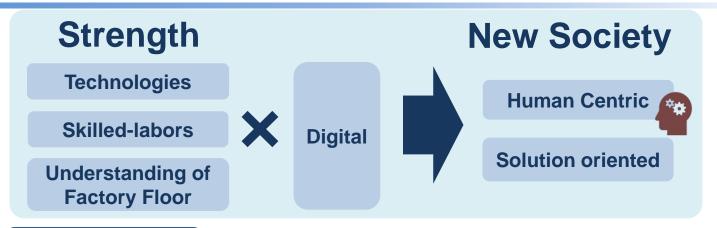
Concept

Humans, Machines and Technologies are CONNECTED
Across borders and generations
and NEW VALUE is generated continuously



Connected Industries





Pillars



New Digital Society

- -- Humans and Machines/Systems work together --
- New Technologies (e.g. Al & Robotics) are tools for solution.
- Utilize those technologies to maximize Humans abilities



Multilevel Cooperation

- -- Across Regions, Borders and Time --
- Cooperation among individuals, companies, industries and countries are essential for effective solutions

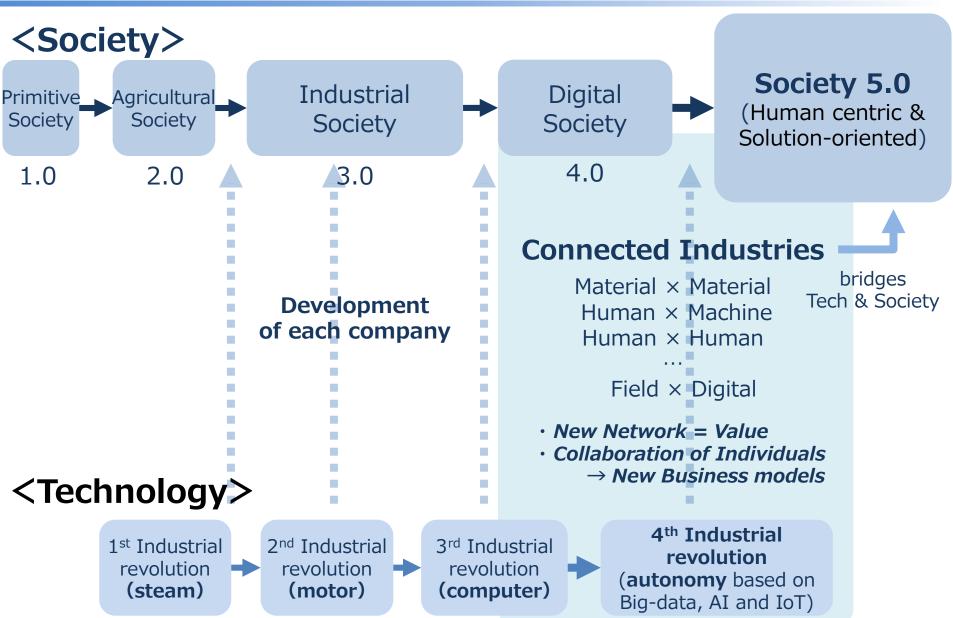


Human Resource Development

-- Knowledge and Skills for Digital Age --

"Connected Industries" and "Society 5.0"





5 focused fields in "Connected Industries" (as of Oct 2017)



Automated Driving/Mobility

- Data sharing/cooperation
- AI R&D + Human resource
- Mobility as a Service / Electrification

Manufacturing/Robotics

- Int'l standardization of data format
- Cyber securiy
- Human resource development
- IoT tools for SMEs



Bio tech/ Health care

- Data sharing/cooperation
- Launching AI tech platform
- Social acceptance for new tech



Min. Mr. Seko on speech



Plant & Infra-maintenance

- Maintenance powered by IoT/AI
- Data sharing/cooperation
- Regulatory change



Smart Life

- Specification of service
- Data sharing / cooperation



Min Mr. Seko & Top managements of JP industries

common policy measures

- Data-use rule
- IT-skills and training
- Cyber-security
- AI (Artificial Intelligence)
- Intellectual Property and Standardization

Focus points of Policies in Smart Manufacturing Sector



- One of the most important fields of this concept is "Smart manufacturing Systems". We have been promoting policies from several different view-points.
 - ✓ Use Cases
 - ✓ International Standardization (IEC/ISO)
 - ✓ Cyber security
 - √ Regulatory reform
 - ✓ Support of SMEs
 - ✓ Skill development and Training
 - ✓ R&D
 - ✓ International Cooperation